

CLAIMS

I claim:

- 1 Sub C1  
2 B3
- 1 Method of preventing machine damage in the event of a web break in a  
2 web-fed rotary printing machine comprising a plurality of cylinders which, in a print-on  
3 position, roll one on another, said printing machine further comprising a plurality of drive  
4 motors for driving said cylinders, said method comprising  
5 synchronizing the motors so that they are all driven at the same speed,  
6 detecting when a web break occurs, and  
7 braking said drive motors to a standstill by jerking stop when a web break  
8 occurs.
- 1 2. Method according to claim 1 wherein said drive motors are braked to a  
2 standstill within five revolutions when a web break occurs.
- 1 3. Method according to claim 2 wherein said drive motors are braked to a  
2 standstill within two revolutions when a web break occurs.
- 1 4. Method as in claim 1 wherein said drive motors are braked by reversing  
2 the effective direction of torque produced by the motors.
- 1 5. Method as in claim 1 wherein, during braking, said cylinders remain in  
2 the print-on position.
- 00870804-053101

1 6. The method of claim 1 wherein said motors are induction motors, said  
2 motors being braked by overloading said motors.

1 ~~Sub 895~~ 7. Apparatus for preventing machine damage in the event of a web break in  
2 a web-fed rotary printing machine having a plurality of cylinders which, in a print-on position,  
3 roll one on another, said printing machine further comprising a plurality of drive motors for  
4 driving said cylinders, said apparatus comprising

5 a control device for synchronizing the motors so that they are all driven at the  
6 same speed, said control device having stored therein a control program which can be activated  
7 in the event of a web break, said control program having therein an emergency stop ramp  
8 which brakes said motors to a standstill by jerking stop, said program driving said motors  
along said stop ramp in the event of a web break.

1 ~~SUB 03~~ 8. Apparatus as in claim 7 wherein each said cylinder is driven by a  
2 respective said drive cylinder.

1 9. Apparatus as in claim 7 wherein said each said cylinder is a built up  
2 cylinder having a hollow center part.

1 10. Apparatus as in claim 7 wherein each said drive motor is an induction  
2 motor.

1 11. Apparatus as in claim 7 wherein said control program drives motors  
2 along said stop ramp by operating said motors in the overload range.

- 1                    ~~C~~ 12. Apparatus as in claim 7 wherein said control program brakes said motors  
2    by reversing the effective direction of torque produced by the motors.

~~Add B5~~

09870804-053101  
TOTED-40802860